

## **Embroidered patch and manufacturing method therefor**

### **BACKGROUND OF THE INVENTION**

#### **1. Field of the Invention**

The present invention relates to a embroidered patch and manufacturing method thereof for the items such as cap, dress, bag and others and, more particularly, to embroidered patch which is designed to reduce the manufacturing process time and to enhance the productivity by shortening manufacturing process of embroidered patch.

#### **2. Description of the Prior Art**

Typically, patch was originally derived from the practice that symbol and ornament were applied to shield of knight in the middle age. Meanwhile it has recently been used to various products including dress, cap, bag and others as its application has been increased and manufacturing of many kinds of patches like characters, numbers, figures, pictures, etc, has been available.

One of the patches being used was embroidered patch that embroidery yarn is used. The embroidered patch was embroidered on cloth or sole sheet as the preset shape according to the intention of a user. Then it was cut along the circumference line of embroidered patch, and it was sewn as zigzag form applied on the cut portion using sewing

machine.

However, as the above conventional manufacturing method of embroidered patch needed troublesome cutting process, improvement of the process and productivity has been necessary.

#### SUMMARY OF THE INVENTION

The noted object of the present invention is to resolve the problems that current art has had, the main purpose is to reduce process time and fundamentally to improve productivity.

To achieve the purpose above, the embroidered patch of the present invention consists of the portion embroidered like the shape that an user aimed with embroidery yarn and another embroidered portion embroidered on the circumference line of embroidered patch, and, for the embroidered patch, soft materials may be applied to said non-woven fabrics for thicker embroidered patch, and EVA(Ethylene Vinyl Acetate) is usually used and 1~2mm of thickness is appropriate for the soft materials.

The said embroidered patch has features that said non-woven fabrics and soft materials are directly embroidered with embroidery yarn along with embroidering the circumference line without need of cutting and zigzag stitching outline, which were used in current art.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view of the embroidering process according to the present invention;

Figure 2 is a perspective view of the outline process according to the present invention;

Figure 3 is a completed view of the embroidered patch according to the present invention;

Figure 4 is a perspective view of cap that the embroidered patch according to the present invention is applied.

#### DESCRIPTION OF THE PREFERRED EMBODIMENT

Although only a preferred embodiment of the invention are explained in detail, and it is to be understood that the embodiments are given by way of illustration only. It is not intended that the invention is to be limited in its scope to the details of construction and arrangement of components set forth in the following description of illustrated in the drawings. This invention is capable of other embodiments and of being practiced or carried out in various ways.

In accordance with the preferred embodiment of the present invention, Figure 1 is a perspective view of the embroidering process according to the present invention and figure 2 is a perspective view of the outline process according to the present invention. As shown on the figure, mid-hardened or soft non-woven fabrics 1 having a certain

thickness are basically used for making the embroidered patch. For the materials that the patch is attached, any materials, which may be easily detached after being embroidered with embroidery yarn, may be used other than the non-woven fabrics. And also if thicker embroidered patch is needed, soft materials may be applied on the said non-woven fabrics, and EVA is usually used and 1~2 mm of thickness is appropriate for it, and the embroidery is finished as a form of wrapping the non-woven fabrics 1 sewn with embroidery yarn 4 along the preset shape 3 that user aimed using embroidery needle 2 of embroidery machine, and then, sewn along the circumference of the embroidered line 3.

Figure 3 is a finished view of the embroidered patch according to the present invention. As shown on the figure, the embroidered portion 3, 5 is detached from the rest portion, which is not embroidered, after finishing embroidery on the circumference line 5 of said embroidered shape. The detached embroidered portion 3, 5 contains non-woven fabrics in it, embroidery yarn is wrapped around the non-woven fabrics, and the circumference portion of the embroidered portion 5 has the shape that additional embroidery yarn is surrounded, thus the finished embroidery portion 3, 5 is called embroidered patch.

Figure 4 is a perspective view of cap that the embroidered patch according to the present invention is applied. As shown on the figure, the embroidered patch according to the present invention may be applied to